

# INTERNATIONAL SEARCH REPORT

Intern Application No  
PCT/IB 03/02483

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H01J31/12 H01J29/46

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 103 204 A (CREDELLE THOMAS LLOYD) 25 July 1978 (1978-07-25) column 5, line 35-43; figures 4-6 column 9, line 43-45, 52-57	1-4, 6-9, 11, 12
X	US 4 031 427 A (STANLEY THOMAS OSBORNE) 21 June 1977 (1977-06-21) column 5, line 44-58; figures 4-6, 9 column 6, line 6-9 column 7, line 20-22	1-10, 12-14
Y	- " -	15
X	US 4 181 871 A (GANGE ROBERT A) 1 January 1980 (1980-01-01) column 2, line 43-48; figures 2, 3, 6, 7 column 3, line 35, 36 column 4, line 38-49	1-3, 7-9, 12

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

4 September 2003

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	WO 98 35375 A (KONINKL PHILIPS ELECTRONICS NV ;PHILIPS NORDEN AB (SE)) 13 August 1998 (1998-08-13) figures 2-4	15
A	----- US 5 838 102 A (BIJLOO JAN A) 17 November 1998 (1998-11-17) column 5, line 40-47; figure 3 -----	12-14
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Information on patent family members

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